

22 November 1965

MEMORANDUM FOR: Chief, Production Services Division, RPTC

SUBJECT: Trip [redacted]
14-16 November 1965

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1. General briefing on the Briefing Print Enlarger, basic design requirements and progress made to date. Personnel in attendance were: [redacted]

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Plans & Development Staff, [redacted] and the undersigned of PTD.

2. Following this briefing we spent several hours on a demonstration of the bread board model. This consisted of making prints from each lens system covering the minimum to maximum magnification factors. Along with this, tests were included using resolution targets. Since this is a bread board model several changes, most of which are minor, will have to be made. This was brought to our attention by [redacted] and will be corrected in the prototype.

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3. The basic requirements are for BW, however, this system can be used for color using a color filter which is incorporated in the lamp house. Three of the six lenses are color corrected and the light source is compatible for color printing.

a. Magnification and lens settings are arrived at by computer techniques and can be accomplished accurately in a minimum of time. However, some changes are in order because of varying thickness of films used.

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b. Present method used to make the necessary lens settings, are not practical. This is due to the position and method used in order to achieve this setting. A change was requested and agreed upon by [redacted]. Lens and condenser changes takes approximately two minutes. Another change was requested on removing and replacing the lens. Present lens must be aligned and screw mounted into position. This can be dangerous, it increases the possibility of dropping the lens. We requested that the lens have a bayonet type mount.

[redacted] agreed.

c. Fluid gate needs additional work. Present method does not have an air-knife for removing excess fluid prior to take-up on spool, this will cause film to become

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tacky and stick resulting in possible emulsion damage.
A better method is now under consideration by [redacted]

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- d. Transport system is operated by a joy-stick with torque motor clutch. This is an improvement on the type now used on the 10x20x40x and appears to be satisfactory. Printing speed is borderline, could be faster. This was discussed at length and [redacted] agreed to try to seek a method to improve printing speed.
- e. Exposure index counter system appears to be a good one, however, the position in which it is now mounted makes it difficult to read. This will be corrected in the prototype.
- f. The easel has a built-in sensing system to determine exposure readings. This system is not acceptable. This type of exposure reading would be a compilation of overall exposure and would not allow for point spot exposures which we are required to make for specific areas of a negative. Our present system of on easel reading now allows us to print for maximum results. We explained this to the group and all concurred in my request. Because of its high reflectance, the present easel is not suitable. It diffuses the image, and does not provide a sharp focus. This will be corrected.
- g. The lamp house on this model does not have a cooling or venting system. Because of long exposures, and constant use it is necessary that both be incorporated in the prototype model. The lamp house has a filter wheel so it may be possible to make use of variable contrast black and white paper stocks, this is a fine feature. [redacted] feels this can be accomplished and would like to make tests prior to production of the prototype.
- h. I feel it would be wise to consider additional work to design and build two additional lenses to cover from the present maximum 60X factor to 160X. [redacted] feels this can be accomplished with a minor change to the present design.

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[redacted]
Chief, Photo Lab Branch, PSD

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